

To : Care Six Co. LTD

# APPROVAL SHEET

NK100			
NO	MODEL	FREQUENCY	
1	HWI-BT-NK100	Bluetooth	2402 ~ 2484 MHz

Supplier			Approval		
Draft	Check	Approval	Draft	Check	Approval
					
남태현		최 환			

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# ANTENNA SPECIFICATION

1. Model name : HWI-BT-NK100

2. Application: This specification provides for F-PCB ANTENNA for Bluetooth.

3. ANTENNA Terms of Use

■ Carrying ■ Fixation ■ Moving ■ Outdoor ■ Indoor ■ Others ( )

4. ANTENNA Shape

Attached #3 as shown in the drawing.

5. Electrical characteristics and performance

In actual conditions of use or in appropriate conditions corresponding thereto, the following shall be satisfied.

No.	ELECTRICAL DATA	SPECIFICATIONS		REMARK
5. 1	FREQUENCY RANGE	Bluetooth	2402 ~ 2484 MHz	
5. 2	IMPEDANCE	50 Ω NOMINAL		
5. 3	V. S. W. R	Less than 1: 2.0		Attached #1
5. 4	PEAK GAIN(Min)	2.4dBi		Attached #2
5. 5	RADIATION PATTERN	OMNI - DIRECTIONAL		
5. 6	POLARIZATION	LINEAR		

6. Mechanical Specifications and Characteristics

No.	MECHANICAL	SPECIFICATIONS	REMARK
6. 1	FPCB	CCL	
6. 2	COVERLAY	Black	
6. 3	TAPE	TESA 4982	
6. 4	Dimension	37.0 X 5.0 X 0.15T	

## 7. Reliability Test Criteria and Product Warranty

NO	environmental reliability test	Test methods and criteria for determining
1	high-temperature and high-humidity	No electrical and mechanical performance abnormalities after 70°C, 95% 48Hr test.
2	leave at a low temperature	No electrical and mechanical performance abnormalities after testing at -40°C, 48hr.
3	heat shock	There shall be no electrical and mechanical performance abnormalities of 70°C (30min) to 40°C (30min) 24 cycles.
4	saline spray	5% sodium chloride, 35°C, 48hr

## 8. Measurement and inspection

It conforms to the requirements set forth in this approval and conforms to the Company's quality control regulations.

## 9. Packaging

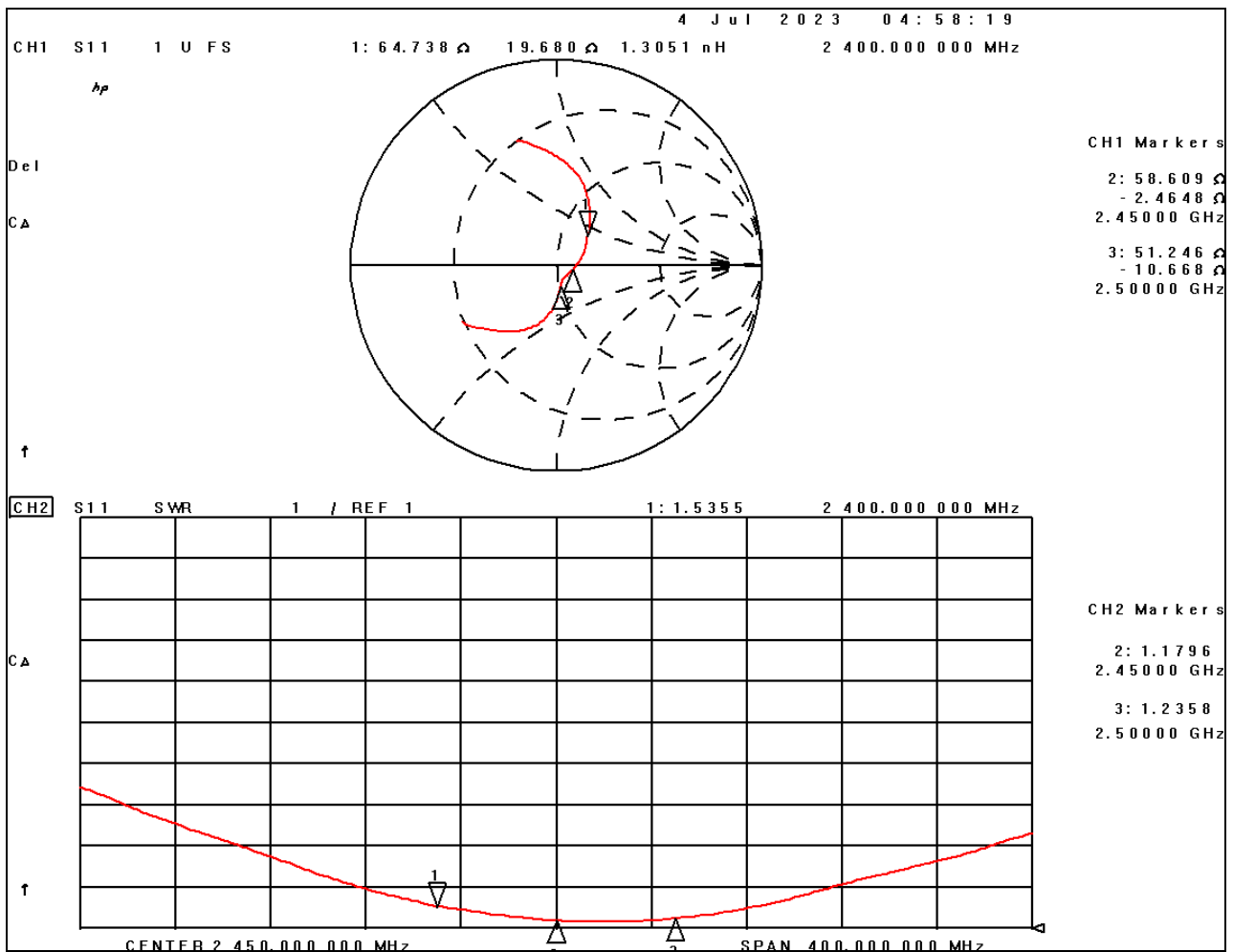
After packaging the product according to the characteristics of the product, it is packaged collectively so that there is no flow in the appropriate box.

The packaging of the product shall be in accordance with our regulations unless otherwise requested by the customer.

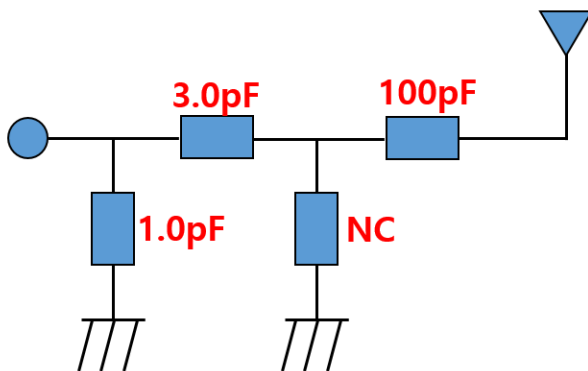
## 10. Product Warranty

This product is obligated to be repaired or exchanged free of charge only in the event of a defect in design and manufacturing within one year after delivery.

# Attached #1 : VSWR



## - Antenna Matching





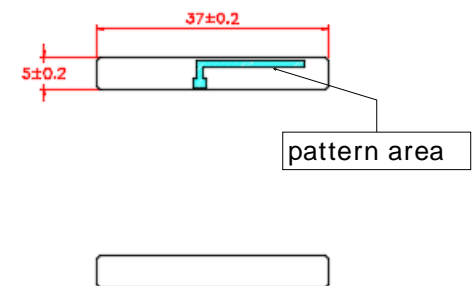
Attached #3 : Drawing

No	Revision Note	Checked	Date
▲			


  

**Pattern :**

**TOP**

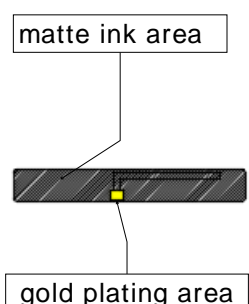


**BOTTOM**

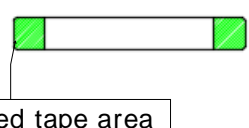


**INK : Black INK**

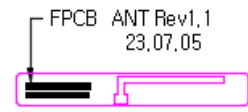
**TOP**



**BOTTOM**



**Silk print : White Color**

1. 표시는 패턴 Area임.
2. 표시는 금도금 Area임.
3. 표시는 무광 INK 영역임.
4. 표시는 3M 467 영역임.
5. 1/2 OZ, 1/2 ML, 단면F-PCB 적용.

\* Contact Type 필히 금도금 적용 바람

1	Part Name	Material Description	1	Finish
Scale	Unit	Title	FPCB	
1/1	mm	Drawn by	Checked by	Approved by
Decimal	Angle	J.O,LIM		H,CHOI
한울테크놀로지	N/A	230927-50		

Hanwool Technology